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FILE 'HOME' ENTERED AT 09:19:42 ON 09 AUG 2005

FILE 'REGISTRY' ENTERED AT 09:19:51 ON 09 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 AUG 2005 HIGHEST RN 859027-58-0
DICTIONARY FILE UPDATES: 8 AUG 2005 HIGHEST RN 859027-58-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

```
*****  
*  
* The CA roles and document type information have been removed from *  
* the IDE default display format and the ED field has been added, *  
* effective March 20, 2005. A new display format, IDERL, is now *  
* available and contains the CA role and document type information. *  
*  
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> E "NITRILOACETIC ACID"/CN 25

E1 1 NITRILO-N,N,N-TRIS(METHYLENEPHOSPHONIC ACID)/CN
E2 1 NITRILO-PG12 HYDROCHLORIDE/CN
E3 0 --> NITRILOACETIC ACID/CN
E4 1 NITRILOACETONITRILE/CN
E5 1 NITRILODI(3-PROPIONIC ACID)ACETIC ACID/CN
E6 1 NITRILODIACETIC ACID METHYLPHOSPHONIC ACID/CN
E7 1 NITRILODISILANE/CN
E8 1 NITRILOHEXAPHOSPHONITRILIC CHLORIDE/CN
E9 1 NITRILOMALONAMIDE/CN
E10 1 NITRILOMONOACETIC ACID DIMETHYLENEPHOSPHONIC ACID/CN
E11 1 NITRILOMONOMETHYLCARBONYLDIMETHYLPHOSPHONIC ACID/CN
E12 1 NITRILON/CN
E13 1 NITRILOPYRAMINE TOSYLATE/CN

NEWS	15 APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16 APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17 MAY 23	GBFULL enhanced with patent drawing images
NEWS	18 MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19 JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	20 JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	21 JUN 13	FRFULL enhanced with patent drawing images
NEWS	22 JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS	23 JUL 01	MEDICONF removed from STN
NEWS	24 JUL 07	STN Patent Forums to be held in July 2005
NEWS	25 JUL 13	SCISEARCH reloaded
NEWS	26 JUL 20	Powerful new interactive analysis and visualization software, STN AnaVist, now available

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:08:16 ON 09 AUG 2005

=> file registry
COST IN U.S. DOLLARS . SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST . 0.21 0.21

FILE 'REGISTRY' ENTERED AT 15:08:26 ON 09 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 8 AUG 2005 HIGHEST RN 859027-58-0
DICTIONARY FILE UPDATES: 8 AUG 2005 HIGHEST RN 859027-58-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that specific topic.

E14 1 NITRILOSILANE/CN
E15 1 NITRILOSILANE ION(1-) (SIN-)/CN
E16 1 NITRILOSILANETHIOL/CN
E17 1 NITRILOSILANOL/CN
E18 1 NITRILOTRI (METHYLENEPHOSPHONIC ACID)/CN
E19 1 NITRILOTRI (METHYLENEPHOSPHONIC ACID) SODIUM SALT/CN
E20 1 NITRILOTRIACETAMIDE/CN
E21 1 NITRILOTRIACETATE/CN
E22 1 NITRILOTRIACETATE DEHYDROGENASE/CN
E23 1 NITRILOTRIACETATE ION(3-)/CN
E24 1 NITRILOTRIACETATE MONOOXYGENASE/CN
E25 1 NITRILOTRIACETATE MONOOXYGENASE (AGROBACTERIUM TUMEFACIENS STRAIN C58 GENE ATU3277)/CN

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	0.64

STN INTERNATIONAL LOGOFF AT 09:20:25 ON 09 AUG 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * Welcome to STN International * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS 4 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 5 MAR 02 GBFULL: New full-text patent database on STN
NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new fields
NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
NEWS 14 APR 18 New CAS Information Use Policies available online

conducting SmartSELECT searches.

```
*****
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,      *
* effective March 20, 2005. A new display format, IDERL, is now        *
* available and contains the CA role and document type information.   *
*****
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> E "TRIGLYCINE"/CN 25
E1      1    TRIGLYCIDYLAMINE/CN
E2      1    TRIGLYCIDYLURAZOLE/CN
E3      2 --> TRIGLYCINE/CN
E4      1    TRIGLYCINE AMIDE/CN
E5      1    TRIGLYCINE BENZYL ESTER/CN
E6      1    TRIGLYCINE BENZYL ESTER MONOHYDROCHLORIDE/CN
E7      1    TRIGLYCINE BERYLLIUM FLUORIDE/CN
E8      1    TRIGLYCINE COPPER-2,2'-BIPYRIDINE COMPLEX (1:1:1)/CN
E9      1    TRIGLYCINE ETHYL ESTER TRIFLUOROACETATE/CN
E10     1    TRIGLYCINE FLUOROBERYLLATE/CN
E11     1    TRIGLYCINE FLUOROBERYLLATE, LABELED WITH DEUTERIUM/CN
E12     1    TRIGLYCINE HYDROCHLORIDE/CN
E13     1    TRIGLYCINE MONOFLUOROPHOSPHATE/CN
E14     1    TRIGLYCINE PHOSPHATE/CN
E15     1    TRIGLYCINE SELENATE/CN
E16     1    TRIGLYCINE SELENATE, LABELED WITH DEUTERIUM/CN
E17     1    TRIGLYCINE SULFATE/CN
E18     1    TRIGLYCINE SULFATE, LABELED WITH DEUTERIUM/CN
E19     1    TRIGLYCINE SULFATE-D17/CN
E20     1    TRIGLYCINE SULFATE-D3/CN
E21     1    TRIGLYCINE SULFO-PHOSPHATE/CN
E22     1    TRIGLYCINE TETRAFLUOROBERYLLATE/CN
E23     1    TRIGLYCINE TETRAFLUOROBERYLLATE(2-)/CN
E24     1    TRIGLYCINE-TANTALUM DISULFIDE COMPD./CN
E25     1    TRIGLYCOL/CN
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=> S E3
L1      2    TRIGLYCINE/CN
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=> DIS L1 1 SQIDE
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y
```

```
L1    ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2005 ACS on STN
RN    556-33-2  REGISTRY
CN    Glycine, glycylglycyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Glycine, N-(N-glycylglycyl)- (6CI, 8CI)
OTHER NAMES:
CN    32: PN: FR2860236 PAGE: 10 claimed sequence
CN    54: PN: WO2004108885 PAGE: 83 claimed sequence
CN    6: PN: US20030104526 PAGE: 43 claimed sequence
CN    Diglycylglycine
CN    Glycine tripeptide
CN    Glycylglycylglycine
```

CN N-(N'-Glycylglycyl)glycine
 CN NSC 46707
 CN Triglycine
 FS 3D CONCORD
 DR 171920-35-7
 MF C6 H11 N3 O4
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, EMBASE, GMELIN*, HODOC*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, NAPRALERT, SPECINFO, TOXCENTER,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 DT.CA CPlus document type: Conference; Dissertation; Journal; Patent;
 Preprint; Report
 RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
 FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process);
 PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role
 in record)
 RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
 study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
 (Properties); RACT (Reactant or reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
 study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
 (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
 reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
 study); BIOL (Biological study); CMBI (Combinatorial study); FORM
 (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP
 (Properties); RACT (Reactant or reagent); USES (Uses)

/ Structure 1 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1402 REFERENCES IN FILE CA (1907 TO DATE)
 153 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1402 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 65 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> E "TRIGLYCINE"/CN 25

E1	1	TRIGLYCIDYLAMINE/CN
E2	1	TRIGLYCIDYLURAZOLE/CN
E3	2 -->	TRIGLYCINE/CN
E4	1	TRIGLYCINE AMIDE/CN
E5	1	TRIGLYCINE BENZYL ESTER/CN
E6	1	TRIGLYCINE BENZYL ESTER MONOHYDROCHLORIDE/CN
E7	1	TRIGLYCINE BERYLLIUM FLUORIDE/CN
E8	1	TRIGLYCINE COPPER-2,2'-BIPYRIDINE COMPLEX (1:1:1)/CN
E9	1	TRIGLYCINE ETHYL ESTER TRIFLUOROACETATE/CN
E10	1	TRIGLYCINE FLUOROBERYLLATE/CN
E11	1	TRIGLYCINE FLUOROBERYLLATE, LABELED WITH DEUTERIUM/CN
E12	1	TRIGLYCINE HYDROCHLORIDE/CN
E13	1	TRIGLYCINE MONOFLUOROPHOSPHATE/CN
E14	1	TRIGLYCINE PHOSPHATE/CN
E15	1	TRIGLYCINE SELENATE/CN
E16	1	TRIGLYCINE SELENATE, LABELED WITH DEUTERIUM/CN
E17	1	TRIGLYCINE SULFATE/CN
E18	1	TRIGLYCINE SULFATE, LABELED WITH DEUTERIUM/CN
E19	1	TRIGLYCINE SULFATE-D17/CN

E20 1 TRIGLYCINE SULFATE-D3/CN
E21 1 TRIGLYCINE SULFO-PHOSPHATE/CN
E22 1 TRIGLYCINE TETRAFLUOROBERYLLATE/CN
E23 1 TRIGLYCINE TETRAFLUOROBERYLLATE(2-)/CN
E24 1 TRIGLYCINE-TANTALUM DISULFIDE COMPD./CN
E25 1 TRIGLYCOL/CN

=> S 139-13-9/RN
L2 1 139-13-9/RN

=> DIS L2 1 SQIDE
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 139-13-9 REGISTRY

CN Glycine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Acetic acid, nitrilotri- (8CI)

OTHER NAMES:

CN α,α',α'''-Trimethylaminetricarboxylic acid

CN Chel 300

CN Chelest NT

CN Complexon I

CN Dissolvine A

CN Hampshire NTA acid

CN N,N-Bis(carboxymethyl)glycine

CN Nitrilo-2,2',2'''-triacetic acid

CN Nitrilotriacetic acid

CN Nitrilotris(methylenecarboxylic acid)

CN NSC 2121

CN NTA

CN Tittriplex I

CN Triglycine

CN Triglycollamic acid

CN Versene NTA acid

FS 3D CONCORD

DR 80751-51-5, 26627-44-1, 26627-45-2

MF C6 H9 N O6

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical

study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

/ Structure 2 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5859 REFERENCES IN FILE CA (1907 TO DATE)
1474 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5865 REFERENCES IN FILE CAPLUS (1907 TO DATE)
7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> S 142-73-4/RN
L3 1 142-73-4/RN

=> DIS L3 1 SQIDE
THE ESTIMATED COST FOR THIS REQUEST IS 6.15 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
RN 142-73-4 REGISTRY
CN Glycine, N-(carboxymethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, iminodi- (6CI, 8CI)
OTHER NAMES:
CN ((Carboxymethyl)amino)acetic acid
CN α-Iminodiacetic acid
CN Acetic acid, 2,2'-iminobis-
CN Aminodiacetic acid
CN Diglycin
CN Diglycine
CN Diglycocol
CN IDA
CN IDA (chelating agent)
CN IMDA
CN Iminobis(acetic acid)
CN Iminodiacetic acid
CN Iminodiethanoic acid
CN N-(Carboxymethyl)glycine
CN NSC 18467
FS 3D CONCORD
DR 57759-17-8
MF C4 H7 N 04
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*, EMBASE,
GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER,
USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence);
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or

reagent); USES (Uses)
 RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
 RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

/ Structure 3 in file .gra /

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2677 REFERENCES IN FILE CA (1907 TO DATE)
955 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2683 REFERENCES IN FILE CAPLUS (1907 TO DATE)
45 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'MEDLINE' ENTERED AT 15:10:57 ON 09 AUG 2005

FILE LAST UPDATED: 6 AUG 2005 (20050806/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (>). See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12
L4 700 L2

=> s 13
L5 124 L3

=> s biotin
18213 BIOTIN
48 BIOTINS
L6 18219 BIOTIN
(BIOTIN OR BIOTINS)

=> s 14 and 16
L7 4 L4 AND L6

=> s 15 and 16
L8 1 L5 AND L6

=> d ibib 17

L7 ANSWER 1 OF 4 MEDLINE on STN
ACCESSION NUMBER: 2005206297 MEDLINE
DOCUMENT NUMBER: PubMed ID: 15839649
TITLE: Electrogeneration of a poly(pyrrole)-NTA chelator film for a reversible oriented immobilization of histidine-tagged proteins.
AUTHOR: Haddour Nâoufel; Cosnier Serge; Gondran Chantal
CORPORATE SOURCE: Laboratoire d'Electrochimie Organique et de Photochimie Redox (CNRS UMR 5630), Institut de Chimie Moléculaire de Grenoble FR CNRS 2607, Université Joseph Fourier, BP 53, 38041 Grenoble Cedex 9, France.
SOURCE: Journal of the American Chemical Society, (2005 Apr 27) 127 (16) 5752-3.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200507
ENTRY DATE: Entered STN: 20050421
Last Updated on STN: 20050726
Entered Medline: 20050725

=> s gallium or iron

6413 GALLIUM
94675 IRON
190 IRONS
94756 IRON
(IRON OR IRONS)

L9 100862 GALLIUM OR IRON

=> s Fe or Ga

20857 FE
1690 FES
22442 FE
(FE OR FES)
9079 GA
139924 GAS
148605 GA
(GA OR GAS)

L10 170464 FE OR GA

=> s ga3? or (gallium () III)

389 GA3?
6413 GALLIUM
226897 III
172 IIIS
226990 III
(III OR IIIS)
81 GALLIUM (W) III
L11 466 GA3? OR (GALLIUM (W) III)

=> s l11 and 14

L12 2 L11 AND L4

=> d ibib 1-2

L12 ANSWER 1 OF 2 MEDLINE on STN
ACCESSION NUMBER: 2001204702 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11233204
TITLE: Tripodal peptide hydroxamates as siderophore models. Iron(III) binding with ligands containing

H-(alanyl)n-beta-(N-hydroxy)alanyl strands (n = 1-3)
anchored by nitrilotriacetic acid.
AUTHOR: Hara Y; Shen L; Tsubouchi A; Akiyama M; Umemoto K
CORPORATE SOURCE: Department of Applied Chemistry, Tokyo University of
Agriculture and Technology, Koganei, Japan.
SOURCE: Inorganic chemistry, (2000 Oct 30) 39 (22) 5074-82.
Journal code: 0366543. ISSN: 0020-1669.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200104
ENTRY DATE: Entered STN: 20010417
Last Updated on STN: 20010417
Entered Medline: 20010412

L12 ANSWER 2 OF 2 MEDLINE on STN
ACCESSION NUMBER: 83127191 MEDLINE
DOCUMENT NUMBER: PubMed ID: 6402006
TITLE: Thermodynamic binding constants for gallium transferrin.
AUTHOR: Harris W R; Pecoraro V L
SOURCE: Biochemistry, (1983 Jan 18) 22 (2) 292-9.
Journal code: 0370623. ISSN: 0006-2960.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198304
ENTRY DATE: Entered STN: 19900318
Last Updated on STN: 19970203
Entered Medline: 19830421

=> d kwic 1

L12 ANSWER 1 OF 2 MEDLINE on STN
AB . . . the A configuration for Fe-1D, Fe-2LL, Fe-2DL, and Fe-3LLL, but
the opposite delta configuration for Fe-1L. These ligands and their
gallium(III) complexes are studied by ¹H NMR
spectroscopy in DMSO-d₆ solution. CD and NMR spectral analysis, aided by
molecular model examinations, . . .
RN 139-13-9 (Nitrilotriacetic Acid); 56-41-7 (Alanine); 60-00-4
(Edetic Acid)

=> file his
'HIS' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'MEDLINE'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> d his

(FILE 'HOME' ENTERED AT 15:08:16 ON 09 AUG 2005)

FILE 'REGISTRY' ENTERED AT 15:08:26 ON 09 AUG 2005
E "TRIGLYCINE"/CN 25

L1 2 S E3
E "TRIGLYCINE"/CN 25
L2 1 S 139-13-9/RN
L3 1 S 142-73-4/RN

FILE 'MEDLINE' ENTERED AT 15:10:57 ON 09 AUG 2005

L4 700 S L2
L5 124 S L3
L6 18219 S BIOTIN
L7 4 S L4 AND L6
L8 1 S L5 AND L6
L9 100862 S GALLIUM OR IRON
L10 170464 S FE OR GA
L11 466 S GA3? OR (GALLIUM () III)
L12 2 S L11 AND L4

=> s l10 and 19
L13 13017 L10 AND L9

=> s l13 and 14
L14 142 L13 AND L4

=> s 19 and 12
 700 L2
L15 286 L9 AND L2

=> s l15 and chelat?
 34934 CHELAT?
L16 120 L15 AND CHELAT?

=> s ga () III
 9079 GA
 139924 GAS
 148605 GA
 (GA OR GAS)
 226897 III
 172 IIIS
 226990 III
 (III OR IIIS)
L17 90 GA (W) III

=> d ibib

L17 ANSWER 1 OF 90 MEDLINE on STN
ACCESSION NUMBER: 2005394007 IN-PROCESS
DOCUMENT NUMBER: PubMed ID: 16028950
TITLE: Hierarchical assembly of helicate-type dinuclear titanium(IV) complexes.
AUTHOR: Albrecht Markus; Mirtschin Sebastian; de Groot Marita; Janser Ingo; Runsink Jan; Raabe Gerhard; Kogej Michael; Schalley Christoph A; Frohlich Roland
CORPORATE SOURCE: Institut fur Organische Chemie, RWTH Aachen, Landoltweg 1, 52074 Aachen, Germany.
SOURCE: Journal of the American Chemical Society, (2005 Jul 27) 127 (29) 10371-87.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: NONMEDLINE; IN-PROCESS; NONINDEXED; Priority Journals
ENTRY DATE: Entered STN: 20050802
 Last Updated on STN: 20050802

=> d kwic

L17 ANSWER 1 OF 90 MEDLINE on STN
AB . . . by NMR spectroscopy and ESI FT-ICR MS. The stability of the dimer is enhanced by high negative charges (Ti(IV) versus Ga(III)) of the monomers, when the carbonyl units are good donors (aldehydes versus ketones and esters), when the solvent does not. . .

=> d his

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L13 13017 S L10 AND L9

L14 142 S L13 AND L4

L15 286 S L9 AND L2

L16 120 S L15 AND CHELAT?

L17 90 S GA () III

=> s l17 and 14

L18 0 L17 AND L4

=> s fe () III

20857 FE

1690 FES

22442 FE

(FE OR FES)

226897 III

172 IIIS

226990 III

(III OR IIIS)

L19 2831 FE (W) III

=> s l19 and 14

L20 35 L19 AND L4

=> s l20 not py>2001

2055116 PY>2001

L21 27 L20 NOT PY>2001

=> s l21 and chelat?

34934 CHELAT?

L22 15 L21 AND CHELAT?

=> d ibib 1-3

L22 ANSWER 1 OF 15 MEDLINE on STN

ACCESSION NUMBER: 2001057966 MEDLINE

DOCUMENT NUMBER: PubMed ID: 10896217

TITLE: Effect of metal complexation on the bioavailability of
nitriilotriacetic acid to Chelatobacter heintzii
ATCC 29600.

AUTHOR: White V E; Knowles C J

CORPORATE SOURCE: Oxford Centre for Environmental Biotechnology, Institute of
Virology and Environmental Microbiology, UK.

SOURCE: Archives of microbiology, (2000 May-Jun) 173 (5-6) 373-82.
Journal code: 0410427. ISSN: 0302-8933.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200012
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001221

L22 ANSWER 2 OF 15 MEDLINE on STN
ACCESSION NUMBER: 2000457585 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10903501
TITLE: Regulation of the expression of human ferrochelatase by intracellular iron levels.
AUTHOR: Taketani S; Adachi Y; Nakahashi Y
CORPORATE SOURCE: Department of Biotechnology, Kyoto Institute of Technology, Japan.. taketani@ipc.kit.ac.jp
SOURCE: European journal of biochemistry / FEBS, (2000 Aug) 267 (15) 4685-92.
Journal code: 0107600. ISSN: 0014-2956.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200009
ENTRY DATE: Entered STN: 20001005
Last Updated on STN: 20001005
Entered Medline: 20000928

L22 ANSWER 3 OF 15 MEDLINE on STN
ACCESSION NUMBER: 1998449575 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9778126
TITLE: Non-transferrin iron uptake by trophoblast cells in culture. Significance of a NADH-dependent ferrireductase.
AUTHOR: Verrijt C E; Kroos M J; Huijskes-Heins M I; van Eijk H G; van Dijk J P
CORPORATE SOURCE: Department of Chemical Pathology, Erasmus University Rotterdam, The Netherlands.
SOURCE: Placenta, (1998 Sep) 19 (7) 525-30.
Journal code: 8006349. ISSN: 0143-4004.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199812
ENTRY DATE: Entered STN: 19990115
Last Updated on STN: 20021030
Entered Medline: 19981209

=> d ibib 4-7

L22 ANSWER 4 OF 15 MEDLINE on STN
ACCESSION NUMBER: 1998443210 MEDLINE
DOCUMENT NUMBER: PubMed ID: 9769245
TITLE: The host-protein-independent iron uptake by Tritrichomonas foetus.
AUTHOR: Tachezy J; Suchan P; Schrevel J; Kulda J
CORPORATE SOURCE: Department of Parasitology, Faculty of Science, Charles University, Prague 2, 128 44, Czech Republic.
SOURCE: Experimental parasitology, (1998 Oct) 90 (2) 155-63..
Journal code: 0370713. ISSN: 0014-4894.
PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199810
ENTRY DATE: Entered STN: 19981029
Last Updated on STN: 19981029
Entered Medline: 19981022

L22 ANSWER 5 OF 15 MEDLINE on STN
ACCESSION NUMBER: 96047990 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7546046
TITLE: Comparison on reactivity of Fe(III) and Al(III) compounds in the presence of hydrogen peroxide: its relevance to possible origin for central nervous system toxicity by aluminum ion.
AUTHOR: Nishida Y; Ito S
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Yamagata University, Japan.
SOURCE: Zeitschrift fur Naturforschung. C, Journal of biosciences, (1995 Jul-Aug) 50 (7-8) 571-7.
Journal code: 8912155. ISSN: 0341-0382.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199511
ENTRY DATE: Entered STN: 19951127
Last Updated on STN: 19970203
Entered Medline: 19951114

L22 ANSWER 6 OF 15 MEDLINE on STN
ACCESSION NUMBER: 95094384 MEDLINE
DOCUMENT NUMBER: PubMed ID: 8001240
TITLE: Induction of free radicals and tumors in the kidneys of Wistar rats by ferric ethylenediamine-N,N'-diacetate.
AUTHOR: Liu M; Okada S
CORPORATE SOURCE: Department of Pathology, Okayama University Medical School, Japan.
SOURCE: Carcinogenesis, (1994 Dec) 15 (12) 2817-21.
Journal code: 8008055. ISSN: 0143-3334.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199501
ENTRY DATE: Entered STN: 19950215
Last Updated on STN: 19970203
Entered Medline: 19950126

L22 ANSWER 7 OF 15 MEDLINE on STN
ACCESSION NUMBER: 95080443 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7988735
TITLE: Spectral analysis of Fe(III)-complex reduction by hemoglobin: possible mechanisms of interaction.
AUTHOR: Harrington J P; Hicks R L
CORPORATE SOURCE: Department of Chemistry, University of South Alabama, Mobile 36688.
SOURCE: International journal of biochemistry, (1994 Sep) 26 (9) 1111-7.
Journal code: 0250365. ISSN: 0020-711X.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199501
ENTRY DATE: Entered STN: 19950124
Last Updated on STN: 19980206
Entered Medline: 19950109

=> d kwic 1

L22 ANSWER 1 OF 15 MEDLINE on STN
TI Effect of metal complexation on the bioavailability of nitrilotriacetic acid to Chelatobacter heintzii ATCC 29600.
AB . . . effect of varying the ratio of metal to nitrilotriacetic acid on its utilisation has been examined using the gram-negative bacterium Chelatobacter heintzii ATCC 29600. The following parameters of substrate utilisation were examined: growth, degradation, respiration, mineralisation and nitrilotriacetic acid uptake. Complexation of nitrilotriacetic acid by Cu(II), Ni(II), Co(II) and Zn(II) prevented utilisation of nitrilotriacetic acid by C. heintzii; complexation to Fe(III) or Mn(II) did not. The pattern of inhibition was consistent with a 1:1 stoichiometry of metal binding to nitrilotriacetic acid..
RN 139-13-9 (Nitrilotriacetic Acid)

=> d his

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L12 2 S L11 AND L4
L13 13017 S L10 AND L9
L14 142 S L13 AND L4
L15 286 S L9 AND L2
L16 120 S L15 AND CHELAT?
L17 90 S GA () III
L18 0 S L17 AND L4
L19 2831 S FE () III
L20 35 S L19 AND L4
L21 27 S L20 NOT PY>2001
L22 15 S L21 AND CHELAT?

=> s phosphor?

L23 236784 PHOSPHOR?

=> s 123 and 12

700 L2
L24 8 L23 AND L2

=> s 124 and 119

L25 0 L24 AND L19

=> s l24 not py>2002
1515153 PY>2002
L26 7 L24 NOT PY>2002

=> s l26 and chelat?
34934 CHELAT?
L27 1 L26 AND CHELAT?

=> d ibib 1

L27 ANSWER 1 OF 1 MEDLINE on STN
ACCESSION NUMBER: 92257124 MEDLINE
DOCUMENT NUMBER: PubMed ID: 1368145
TITLE: Microbial degradation of chelating agents used in detergents with special reference to nitrilotriacetic acid (NTA).
AUTHOR: Egli T; Bally M; Uetz T
CORPORATE SOURCE: Swiss Federal Institute for Water Resources and Water Pollution Control, Swiss Federal Institutes of Technology, Dubendorf.
SOURCE: Biodegradation, (1990) 1 (2-3) 121-32. Ref: 65
Journal code: 9100834. ISSN: 0923-9820.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Biotechnology
ENTRY MONTH: 199206
ENTRY DATE: Entered STN: 19950809
Last Updated on STN: 19950809
Entered Medline: 19920618

=> d kwic

L27 ANSWER 1 OF 1 MEDLINE on STN
TI Microbial degradation of chelating agents used in detergents with special reference to nitrilotriacetic acid (NTA).
AB . . . eutrophication of rivers and lakes. To ameliorate such problems partial or total substitution of phosphates in laundry detergents by synthetic, non-phosphorus containing complexing agents is practiced in several countries. The physiological, biochemical and ecological aspects of the microbial degradation of the. . .
CT Biodegradation
 Chelating Agents: CH, chemistry
 *Chelating Agents: ME, metabolism
 Detergents: CH, chemistry
 *Detergents: ME, metabolism
 Ecology
 Gram-Negative Bacteria: ME, metabolism
 Nitrilotriacetic Acid: CH, chemistry
 *Nitrilotriacetic Acid:.. .
RN 139-13-9 (Nitrilotriacetic Acid)
CN 0 (Chelating Agents); 0 (Detergents)

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	9.16	21.21

STN INTERNATIONAL LOGOFF AT 15:21:36 ON 09 AUG 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1642BJF

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS 4 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 5 MAR 02 GBFULL: New full-text patent database on STN
NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new fields
NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
NEWS 14 APR 18 New CAS Information Use Policies available online
NEWS 15 APR 25 Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS 17 MAY 23 GBFULL enhanced with patent drawing images
NEWS 18 MAY 23 REGISTRY has been enhanced with source information from CHEMCATS
NEWS 19 JUN 06 The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS 20 JUN 13 RUSSIAPAT: New full-text patent database on STN
NEWS 21 JUN 13 FRFULL enhanced with patent drawing images
NEWS 22 JUN 27 MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS 23 JUL 01 MEDICONF removed from STN
NEWS 24 JUL 07 STN Patent Forums to be held in July 2005
NEWS 25 JUL 13 SCISEARCH reloaded
NEWS 26 JUL 20 Powerful new interactive analysis and visualization software, STN AnaVist, now available